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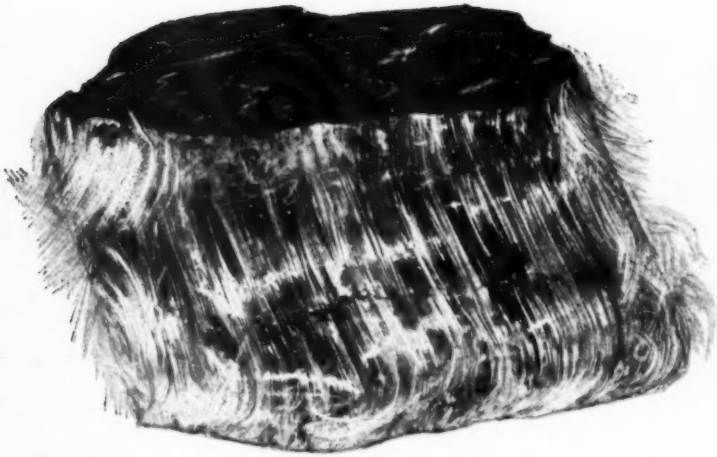

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MODERN TESTING METHODS

(This is the third part of a series of articles entitled "Modern Testing Methods," by Charles Z. Carroll-Porczynski, Head Deputy, Textile Testing Department, British Belting & Asbestos Ltd., Cleckheaton, Yorkshire, England. The first and second parts were published in the May and June 1955 numbers.)

Asbestos Fibre-Strength

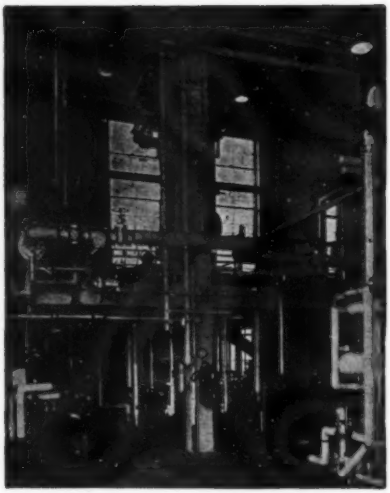
The strength of the asbestos fibres is a very import- and characteristic which together with the length and the flexibility, determines their spinning properties.

There are, however, many other asbestos applications besides the textile products, where the strength of the fibres is of primary importance. These include asbestos paper, asbestos cement, and many other structural and plastic materials incorporating asbestos felt, paper, or cloth as a reinforcement.

The original strength of asbestos may be considerably reduced during extraction of the fibres from the rock. The extent of damage depends on the hardness of rock, ease of separation, fibre occurrence, and above all, on the type of the equipment used.

The character of the fibre damage is dual as both the length and the strength of the fibres are usually affected. Harsh milling treatment causes numerous fractures and fibre breakages. This mechanical damage of the fibre is perhaps unavoidable even with the best type of equipment, although the extent of such damage could in certain cases be minimized. For example, at the milling stage, it might be useful to carry out a series of fibre strength tests on crude asbestos prior to crushing and fiberizing, and compare the original strength of the fibres with that after processing, in order to determine the extent of the damage, and the type of equipment and sequence of operations best suited for the opening of a particular type of asbestos.

In connection with this, M. S. Badollet, (1, 2) published an interesting article entitled "Processing of Asbestos Fibres," in which he discussed the effect of willowing operations on the physical properties, notably



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the length of the fibres, with special reference to their resistance to mechanical damage.

From the textile manufacturer's point of view, the stage at which the evaluation of the strength of asbestos fibres would be most useful is in the asbestos factory where the conversion of the milled fibres into the final product takes place.

Testing Methods

In general, the textile fibres may be tested either singly or in bundles. The single test method is very slow and laborious. Standard tests for measuring the strength of the organic fibre bundles are equally suitable in applications to asbestos. The most commonly used are Pressleys, Chandler's, Walen's and Grimes' methods.

The latter consists of parallelizing the fibres by combing out and cutting to a definite length. The bundles are then adjusted to a weight of 0.025-0.005 grams, the ends are taped together with drafting tape, and the bundles are broken in a fabric testing machine. The results are calculated to pound strength per gram of fibres and averaged.

In the United Kingdom the strength of the fibres is frequently expressed in terms of "breaking length." If the strength of the fibres in milligrams is divided by the weight in 10^{-8} gm. per cm., the result is the "breaking length" in kilometers.

In the case quoted below several specimens of milled chrysotile fibres were tested for strength by the Wool Industry Research Association, and the results were checked by the examination of the yarns made from these fibres.

Testing Procedure and Results

The bundles of milled chrysotile asbestos were tested at a constant rate of loading of 4 lb./min. on a Scott Inclined Plane Tester. Selected bundles were clamped between jaws to give a length of ½ cm. which together with the sections in the jaws gave a total length of 2.05 cms. The breaking load was recorded and then the broken bundles weighed.

The weight per unit length was calculated, and this

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divided into the breaking load to give the breaking length, which is thus a measure of the intrinsic strength of the fibres on a common weight basis.

The strength of the fibres from various mines are shown in the following table:

Sample No.	Variety	Mean Breaking Length in Kilometers	Coefficient Variation %	No of Tests
1.	South African Crocidolite asbestos	39.6	39.2	15
2.	Rhodesian Chrysotile C. & G. 1.	35.3	40.2	15
3.	Canadian Chrysotile 3 F.	16.8	32.7	15
4.	Canadian Chrysotile 3 K.	26.9	30.9	15
5.	Canadian Chrysotile 3 K.	22.9	31.6	15
6.	Canadian Chrysotile 3 K.	20.8	62.1	15
7.	Canadian Chrysotile 3 K.	14.1	36.5	15
8.	South African Chrysotile	13.6	41.4	15

As might be expected, the strength of blue or crocidolite asbestos is higher than that of chrysotile asbestos. It has been frequently suggested that the strength of Crocidolite asbestos may be proportional to the amount of ferrous iron in the molecule, (3, 4) and the considerable variations in strength of the South African Blue asbestos have been recently reported by J. J. Frankel (4). Similarly, the strength of chrysotile asbestos varies considerably, depending on the source of supply. Rhodesian chrysotile appears to be stronger than those tested from other sources, and the South African sample has the lowest strength. This does not mean however, that South African chrysotile fibres are inferior in strength to Rhodesian or Canadian fibres. It may be noticed for example that the strength of Canadian fibres ranges from 26.9 to 14.1 depending on the source of supply or the location of the mines. In order to establish close relationship between the strength of fibres and the strength of yarns, further tests were carried out and several batches of yarns have been prepared for examination from the asbestos samples numbered 3, 4, 5, 6, 7, and 8 as indicated in Table 1. In order to ensure the accuracy of the results, the same card and spinning frame were used in each case. Each sample was numbered and spun from the

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same condenser bobbin, and from the same condenser tape. The respective length of the fibres may be judged to a certain extent from the standard box test, results of which are shown in the following table: (NO.2.)

3. Canadian 3F	8.0	6.25	1.50	0.25
4. Canadian 3K	5.0	8.50	2.0	0.50
5. Canadian 3K	5.25	7.80	2.20	0.75
6. Canadian 3K	5.75	8.25	1.75	0.25
7. Canadian 3K	5.25	8.25	2.25	0.25
8. South African Chrysolite	8.25	6.50	1.00	0.25

All figures represent the average value from 3 tests.

TABLE NO. 3 — STRENGTH OF YARNS

Sample No.	Sample Origin	No. of low breaks per 500 yards	Average strength lb.	% organic count	% organic fibres	Strength factor
3.	Can. 3F	13	2.17	17.0	16.3	16.0
4.	Can. 3K.	1	2.88	16.13	14.5	22.6
5.	Can. 3K	5	2.35	16.35	15.2	18.5
6.	Can. 3K	6	2.21	16.00	15.6	16.5
7.	Can. 3K	33	2.02	15.20	14.5	15.0
8.	So. Afr. Chrysotile Too weak to test		1.83	15.9	12.5	14.5

Average strength results are based on 200 tests (20 bobbins tested.) Number of low breaks means breaks below 1.31 lbs. Low breaks were determined by means of the Continuous Winding Tester Twist factor was found to be similar in each yarn.

Comparing tables 1 and 3, it may be noted that the strength of the yarns appears to be more closely related to the strength of the fibres than to their length within a certain range.

Taking as example the yarns prepared from 3F Canadian fibres, their strength is considerably inferior to the samples numbered 4, 5, and 6, prepared from the shorter fibres belonging to 3K grade.

Similarly, the strength of the yarns prepared from the relatively long South African Chrysotile is considerably inferior to all yarns made from 3K Canadian fibres.

It is necessary to mention that an attempt was made to assess the degree of opening, softness and flexibility of the tested Canadian fibres and it has been assumed that the differences in these properties were small and not

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likely to influence the final strength of the yarns to any appreciable degree.

In the light of these observations the close relationship established between strength of the fibres and the strength of the yarns becomes very significant.

One more interesting observation can be made analysing the values of low breaks in the yarns. For example little difference appears in the average strength of yarns designated as 6 and 7, but the values of low breaks indicate, without any doubt, which batch is the better, and that the difference is, in fact, very significant. This example may serve as further evidence of the usefulness of the Continuous Constant Tension Winding Tester described in the previous article (June issue).

Conclusions

With the expansion of the asbestos industry, and the opening of new mines and asbestos factories, the problem of the evaluation of the raw materials becomes more and more important.

The practical applications of the methods outlined in this paper should help the asbestos manufacturers in the selection of the fibres to meet specific requirements, particularly with regard to the tensile properties of the final products, and in general, assist in the preparation of asbestos blends. They should also be of interest to the mining industry in the evaluation of new deposits and processing of asbestos.

The author is indebted to the Wool Industries Association for the help given in the preparation of this chapter and the British Belting & Asbestos Co., Ltd., of Cleckheaton, Yorks, for permission to publish this paper.

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Gold Bond

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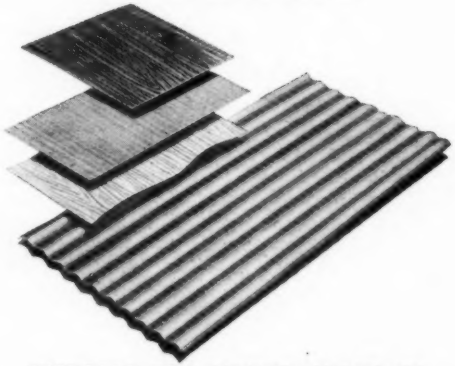

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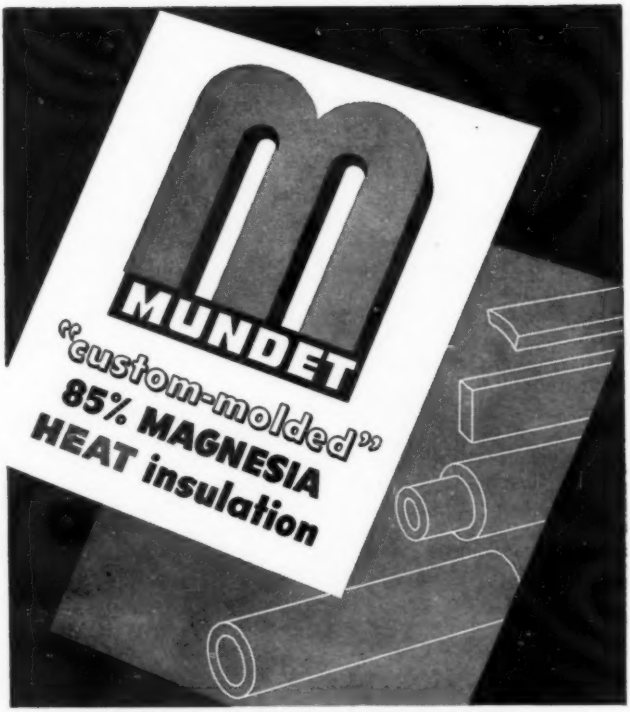
GOLDEN AGE MINES LIMITED

The following outlines progress of the Golden Age Mines Limited's operations in the Beauceville area of the Province of Quebec. In addition to exploration on the wholly owned properties of the Company in the area, exploration has been performed on the properties of Standard Asbestos Mines Limited. The Company has a substantial share interest in Standard Asbestos and has outstanding options to purchase shares of that Company, which if exercised, will bring the Company's holdings in Standard Asbestos to 77% of its issued capital stock. For purpose of its exploration program the properties of Golden Age Mines Limited and those of Standard Asbestos are considered as a unit.

Since August 1954, it has been their good fortune to secure the services of Mr. Paul H. Lachance, Professional Engineer and Geologist, who, for the previous three years was in charge of exploration of the properties of Canadian Johns-Manville Co. Limited, in the Beauceville area, which properties surround Golden Age Mines Limited on four sides. Mr. Lachance succeeds Mr. Parker D. Pitts, who acted as Consulting Geologist since 1951.

During 1954 diamond drilling operations were carried on in Range #1, N.E. and in Range St. Charles until the end of February with completion of D.D. Hole #36 on the northern end of what they then assumed to be the Dyke Anomaly. Subsequent work by Mr. Lachance has proven that the possible area of fibre deposition has been very much enlarged and that on a sizable portion of Lots 300, 301 and 302, the serpentine body is as wide as 1600 feet, thus making it necessary to ultimately do much further exploration in this area.

Twenty holes were drilled, (#18 to #36 inc.), with over-burden showing from zero to a maximum of 63.5 feet but with most of them showing less than 20 feet. All of these holes were drilled with AXT cores and all produced some fibre, ranging from Group #3 to Group #7, but predominantly of the lower groups and low dollar values. These holes were drilled over a length of 7000 feet with centers approximately 350 feet apart. Work was tempor-



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arily suspended on this section at the end of February 1954 on account of severe weather.

Work recommenced about May 27th, 1954 with the drilling of nine holes, (#37-#45 inc.) covering about 1800 feet of core on the River Section and extending about 2000 feet northast from the main highway, with what can only be considered most encouraging results. BX cores were used, with a non-revolving core barrel and showed a much greater fibre recovery as well as dollar values. Core milling of D.D. Hole #40 across a width of 220 feet gave a dollar value of $2.80 per ton. Hole #42 showed a dollar value of $3.48 per ton over a width of 140 feet. Hole #43 showed a value of $3.29 over a width of 195 feet.

The minimum factor as applied to these core millings would be 1.8 but in this very soft rock formation of the Beauceville area, it is the opinion that a factor of 2 can be safely applied which would reveal a value of rock in place of between $5.80 and $7.00 per ton. Overall mining costs are estimated at about $2.00 per ton.

Six pits were opened to bedrock but on account of almost continuous rains it was possible to satisfactorily test but one pit; namely Pit #3, about 900 feet northeast of the highway. From this pit approximately 60 tons of ore were extracted and milled at the test plant at St. Odilon, Que., with suprisingly encouraging results. Fibre of good quality was produced ranging from Group #4 to Group # 7, with the % of grades above sevens as high or higher than the sevens.

As enough probable ore has been exposed to operate a mill of 2,000 tons capacity per day, their present plans are to open the mine to a substantial degree and make a bulk test of at least 1,000 tons.

They are negotiating for the use of a commercial mill in which these tests will be run as soon as possible.

Two very important factors involved make the Golden Age property unusual; the extremely low cost of mining on account of the topography of the mine location; and its proximity to waterborne transportation, being only 47 miles from dockside at Levis, Quebec on the St. Lawrence River.

(From Progress Report by James A. Robb, President)

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MINERS IN MOVIES

Asbestos miners and mill workers are the stars of a new Canadian moving picture "It's Asbestos".

The film tells in dramatic form the story of asbestos from the time it is converted into industrial or consumer products in Canadian factories or shipped overseas.

In production for more than a year, the new picture was filmed in Thetford Mines. It was given its first preview in Montreal the end of May and was seen by representatives of the press and the mining industry.

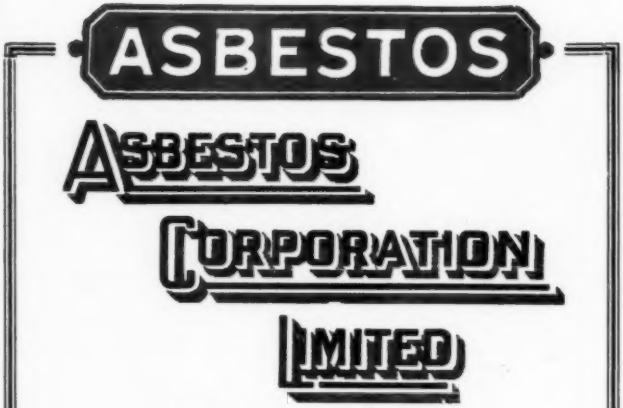
"It's Asbestos" was produced by Associated Screen News and sponsored by Asbestos Corporation. Plans are now being made for a gala premiere theatre showing in Thetford Mines.

At the preview of this documentary film at the Associated Screen News studios in Montreal, representatives of the Montreal press, radio and television were given some details of its production. James McCormick who directed the film and Bob Brazill, the narrator who describe the mining operations were also present.

In a statement issued at the preview, the sponsors stated that "It's Asbestos" is the result of two years of hard work on the part of Associated Screen News and Asbestos Corporation Limited, to produce a film covering in a general way the Canadian asbestos mining industry. It was stated further that it would interest all Canadians who up till now may not have realized the importance of Canada's asbestos mining industry and particularly so far as it applies to the Province of Quebec where it accounts for more than 30% of the total value of Quebec's mineral production and more than twice the value of any other mineral.

A new Therm-O-Tile Bulletin, No. 10154 has recently been issued by H. W. Porter & Company. This bulletin contains some recent changes which have been made to improve Therm-O-Tile Underground Conduit.

Copies of this bulletin are available by writing H. W. Porter & Co., Inc., 825 Frelinghuysen Ave., Newark 5, N.J.



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"ASBESTOLITE"

Siliconed Asbestolite, a new bright aluminum coating, which is reputed to protect and preserve roofs while reducing under-roof temperatures as much as 20 degrees, is recently announced by The Monroe Company, Inc.

The new coating is said to be basically composed of top quality asphalt, long strand Canadian asbestos and water proofing oils. To these have been added silicones and billions of pure extra bright metallic aluminum flakes. The latter reflect the sun's rays and it is claimed that they turn back approximately 71% of the sun's heat. As a result, it is said that Asbestolite often makes possible the employment of space which was previously too hot for practical use.

Asbestolite is recommended for all industrial roofs, schools, hotels, institutions, etc. On farms, its ability to lower under-roof temperatures makes it ideal for chicken houses, silos, corncribs and barns.

In addition to its heat-insulating qualities, Asbestoslite is also said to shield buildings against cold. It comes ready mixed and ready to use in 5-gallon cans and 30 and 55-gallon drums. It does not require heating or thinning and can be sprayed on or applied with a roofing brush or squeegee.

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MIDYEAR REVIEW OF CONSTRUCTION CONTRACT AWARDS

Mid-1955 finds the construction industry operating at record levels with no sign of a downturn, according to Dr. George Cline Smith, economist for F. W. Dodge Corporation.

In his midyear review of construction contract awards in the 37 eastern states, as compiled from Dodge Reports, Dr. Smith said that the most significant features of the first half of 1955 were these:

"1. There has been a very sharp reversal of the downtrend in industrial construction which followed the Korean War, far beyond the expectations of government and private forecasters. The upturn this year has been very broadly based, affecting nearly all major categories of manufacturing.

"2. Contracts for new residential construction have continued to show large increases over the preceding year, with practically all of the emphasis on single-family homes. Apartment construction accounted for a smaller proportion of residential building in the first half of 1955 than in any corresponding period on record.

"3. Every major category of construction showed increases over last year, most of them substantial.

"4. The smallest increase over the first half of last year in any major category, rather surprisingly, was in educational buildings, up only four percent. The educational total was huge, however, amounting to slightly over a billion dollars for a new all-time record."

Citing details of Dodge statistics not ordinarily made available for publication, Dr. Smith concluded that "since construction contract awards precede actual construction, the extremely high levels reported in the first half of 1955 indicate that construction activity in the second half of the year will remain very high, and that the year will almost certainly establish a new record for construction put in place.

"There has been, in recent months, no indication of a downturn underway," Dr. Smith added. "In June,

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the latest month, total awards were 30 percent ahead of June 1954, exactly the same as the increase for the whole six-month period and far above the 13 percent increase of May 1955 over May 1954."

BUILDING

The dollar totals of Dodge Reports of contract awards for future construction in the 37 states east of the Rockies set new high records again in June, according to F. W. Dodge Corporation.

The June grand total was $2,255,209,000 up 30 per cent over June 1954. It was the highest June figure in Dodge's 64 years of construction news reporting.

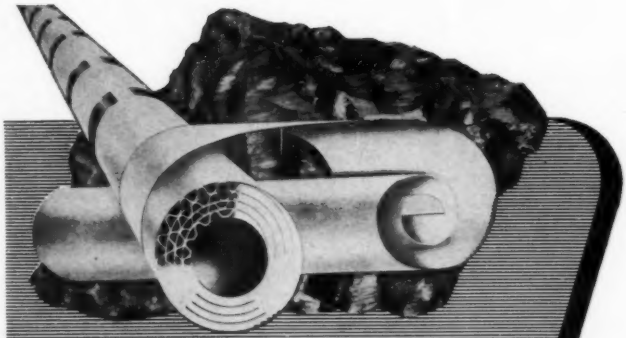
The total for the first six months of 1955 was $11,-982,771,000 up 30 per cent over the same period last year; this set a new high for a first half.

The well balanced gains percentage-wise among the three primary construction classifications reported by Dodge form a striking feature of the June figures. Residential building, non-residential building and heavy engineering construction made almost equal percentage gains, and very substantial gains, at that. The construction picture continues highly favorable.

The contract record indicates high rate of construction expenditures in the remaining months of 1955. As of the year's midpoint, residential building contracts in dollars were $5,456,730,000, 37 per cent ahead of the first half of 1954; non-residential building contracts were $4,132,513,000, 21 per cent ahead, and heavy engineering projects were $2,393,528,000, 29 per cent ahead.

Individual June awards were: non-residential, $842,618,000, up 28 per cent over June 1954; residential, $951,104,000, up 32 per cent over June 1954; heavy engineering, $461,487,000, up 29 per cent over June 1954.

A new publication recently issued by the Keasbey & Mattison Company, Ambler, Pa., entitled "K & M Insulations", IN-32A,lists and describes their various insulations and other K&M products. It also contains interesting photographs and tables.



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MARKET CONDITIONS

GENERAL BUSINESS.

General business conditions continue good. The steel wage increase has led to some price increases in finished goods and will, no doubt, result in further increases in many lines. However, in view of the fact that the machinery and equipment fields have been lagging while most of the economy has been booming, many producers in capital goods lines are dubious of the wisdom of price rises in this highly competitive area. It is felt in many quarters that the boom is leveling off and that early or mid-1956 will see a slackening in most consumer lines. Meanwhile good business is anticipated for the balance of this year by most observers.

The stock market continues strong but highly selective, the widest advances being enjoyed by "blue chips" which are showing high earning capacity and scattered issues with "romance" aspects.

ASBESTOS — RAW MATERIAL

The demand for asbestos fibre in line with a number of the principal asbestos consuming industries is running near peak levels.

Unlike similar times in the past, the supply is such that no curtailment of manufacturing schedules is necessary.

The continued widening use of asbestos fibre and the interest on the part of a growing number of technical people is gradually building new uses for the magic mineral which augur well for its continued growth.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. At present the market is spotty. The only order backlogs are those created by the placement of Federal Government business. Regular commercial business is below fair.

Asbestos Brake Lining. The use of asbestos fibre in the manufacture of friction materials should continue at a high level. Larger brake systems requiring increased lining sizes along with new demand for friction materials in

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ASBESTOS FIBRE DIVISION

70 Pine Street

New York 5, New York

automatic transmissions has greatly advanced the sales potential in new equipment. The replacement market continues to run well ahead of last year and with vehicle registrations reaching an all time high the future prospects for this field are very promising.

Asbestos Paper. There seems to be a steady demand for this material at the present time which provides for normal operations. The sale of commercial asbestos paper is very competitive. The demand for *Millboard* is somewhat less than previous months and sales are very competitive. Although demand is growing for *Saturated Paper*, production still exceeds the demand.

Insulation. High Pressure. A slight improvement has been experienced in recent weeks; however, volume is at a very low ebb with practically no backlog of orders, but strong competition for every job announced.

Insulation. Low Pressure. Demand for this material has fallen off somewhat over this period of last year but it is expected to increase during the next thirty days.

Asbestos Cement Products Although there is a slight improvement in this market production still exceeds orders.

The heavy buying of roofing and siding during June and July has resulted in slight reduction of volume at this time.

There has been no change in the corrugated and flat market, production still exceeding demand.

Seasonal increase in demand for pipes is being experienced. A rather heavy order backlog is being built up as present capacity is insufficient to meet this high demand.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

SITUATIONS OPEN

Heat Insulation Estimator—Salesmen and Contract Managers required by national concern. Complete resume and sales history to Box 8-M. "ASBESTOS," 807 Western Saving Fund Bldg., Phila. 7, All replies will be held confidential.

Unretouched Photo of Millboard Shears

Modern machines and highly-skilled operators team up to produce superior products at Sal-Mo.

INSULATING & FIREPROOFING PRODUCTS

- Asbestos Paper, Rollboard and Tape
- Asbestos Millboard
- Asbestos Aircell Paper, Sheets and Blocks
- Asbestos Pipe Covering
- Range Boiler Jackets
- Asbestos Furnace & Boiler Cements
- Magnesia Covering, Sheets, Blocks and Cement
- Asbestos Cloth, Wick and Rope Packings
- Asbestos Gaskets
- Aluminum-Clad Asbestos Paper, Board and Aircell
- Mineral Wool Insulating Cement

SALL MOUNTAIN COMPANY

HAMILTON, OHIO

WAGE RATE FOR PIPE COVERERS

The wage rates being paid Asbestos Workers (pipe coverers) in the principal cities and insulation centers of the United States and Canada are given in the tabulation below. Comparison with the list in September 1954, "ASBESTOS" (page 44) will show the changes during the year.

These rates are taken from the July 1955 issue of The Asbestos Worker (Official Quarterly Journal of The International Association of Heat and Frost Insulators and Asbestos Workers), and are believed to be up to date (as of July 1955) and authentic.

Akron, Ohio	$3.17½
Albany, N. Y.	3.00
+10c W.F.	
Albuquerque, N. M.	3.10
+10c W.F.	
Allentown, Pa.	2.90
+10c W.F.	
Amarillo, Texas	3.05
Anchorage, Alaska	4.07½
+7½c W.F.	
Appleton, Wis.	2.65
+7c W.F.	
Atlanta, Ga.	2.85
+7½c W.F.	
Atlantic City, N. J.	3.35
+10c W.F.	
Austin, Texas	3.00
+10c W.F.	
Baltimore, Md.	3.12½
+10c W.F.	
Baton Rouge, La.	3.10
+7½c W.F.	
Beaumont, Texas	3.18
+7½c W.F.	
Billings, Mont.	3.05
+7½c W.F.	
Birmingham, Ala.	2.90
+7½c W.F.	
Boise, Idaho	2.65
Borger, Texas	3.05
Boston Naval Shipyd	2.19
Boston, Mass.	3.07
+9c W.F.	
+5c P.F.	
Bremerton, Puget Sound Navy Yard	2.25
Buffalo, N. Y.	3.05
+7½c W.F.	
Calgary, Alt., Canada	2.10
Cedar Rapids, Iowa	3.00
Charleston, S. C., Navy Yard	2.15
Charleston, S. C., except Navy Yard	2.87½
Charleston, W. Va.	3.12½
+7½c W.F.	
Charlotte, N. C.	2.83
Chicago, Ill.	3.20
+10½c W.F.	
Cincinnati, Ohio	3.15
+7½c W.F.	
Cleveland, Ohio	3.37½
Columbia, S. C.	2.82½
Columbus, Ohio	3.16½
+7½c W.F.	
Corpus Christi, Texas	3.05
+7½c W.F.	
Connecticut	3.05
Dayton, Ohio	3.10
+7½c W.F.	
Dallas, Texas	3.00
+7½c W.F.	
Denver, Colo.	3.10
+10c W.F.	
Des Moines, Iowa	3.00
+5c W.F.	
Detroit, Mich.	3.43
+10c W.F.	
Duluth, Minn.	2.77½
+7½c W.F.	
Edmonton, Alta., Can.	2.10
El Paso, Texas	3.00
Evansville, Ind.	3.10
Fort Wayne, Ind.	3.00
Fort William Canada	1.90
Fort Worth, Texas	3.00
+7½c W.F.	

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Freeport, Tex. (Dow Chem. Maint. only).. 2.63
Fresno, Calif. 3.15
+9c W.F.
Galveston, Texas 3.18
+7½c W.F.
Grand Rapids, Mich. 3.15
+10c W.F.
Green Bay, Wis. 2.65
+7c W.F.
Greensboro, N. C. 2.82½
Greenville, S. C. 2.83
Harlingen, Texas 3.05
+7½c W.F.
Houston, Texas 3.18
+7½c W.F.
Huntington, W. Va. 3.12½
+7½c W.F.
Indianapolis, Ind. 3.20
Jackson, Mich. 3.15
+10c W.F.
Jackson, Miss. 3.10
+7½c W.F.
Jacksonville, Fla. 2.95
Kalamazoo, Mich. 3.15
+10c W.F.
Kansas City, Mo. 3.05
+7½c W.F.
Knoxville, Tenn. 2.92½
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Lake Charles, La. 3.05
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Lansing, Mich. 3.15
+10c W.F.
Laramie, Wyo. 3.10
+10c W.F.
Laredo, Texas 3.05
+7½c W.F.
Lawrenceburg, Ind. (Distillery Plant Workers only) 2.65
Little Rock, Ark. 3.00
Long Beach, Calif. (Navy Yard) 2.31
Los Alamos, N. M. (Municipal Operations, Maintenance only) 2.70
Los Angeles, Calif. 3.25
+10c W.F.
Louisville, Ky. 3.10
Madison, Wis. 3.05
+7c W.F.
+7c V.F.
Manitowoc, Wis. 2.65
+7c W.F.
Mare Island Naval Shipyard, Vallejo, Calif. 2.30
Memphis, Tenn. 3.00
+7½c W.F.
Miami, Florida 3.00
Milwaukee, Wis. 3.05
+7c W.F.
+7c V.F.
Minneapolis, Minn. 3.00
+7½c W.F.
Mobile, Ala. 3.03
+7½c W.F.
Montreal, Que., Canada 2.05
+1% W.F.
Nashville, Tenn. 2.87½
+7½c W.F.
Newark, N. J. 3.50
+4% W.F.
New Orleans, La. 3.10
+7½c W.F.
Newport News, Va. (except Navy Yard)..... 2.75
+7½c W.F.
New York City, N. Y... 3.50
+8% W.F.
New York Naval Shipyard 2.33
Norfolk, Va. (except Navy Yard) 2.75
+7½c W.F.
Norfolk Navy Yard..... 2.16
Oak Ridge, Tenn. (Clinton Engr. Works, Maintenance only) 2.34
Odessa, Texas 3.05
+7½c W.F.
Oklahoma City, Okla..... 3.05
Oleum, Cal. (Union Oil Maintenance only).... 3.15
+9c W.F.
Omaha, Nebr. 3.05
+7½c W.F.
Orange, Texas 3.05
+7½c W.F.

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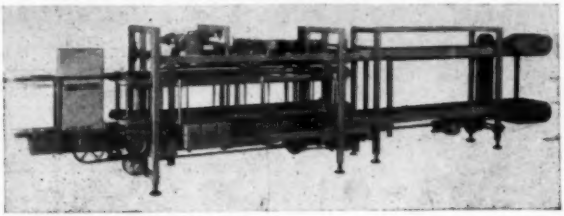

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+9c W.F.
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+10c W.F.
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+9c W.F.
San Francisco, Cal. (Naval Shipyard)..... 2.30
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+7½c W.F.
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Automobile Sales

	June 1955
Passenger Cars	647,658
Motor Trucks	119,215
Motor Coaches	309
	767,182

In June 1954, a total of 598,876 motor vehicles were sold. In the six months of 1955 the total was 4,863,333.

These figures were supplied by the Automobile Manufacturers Association, New Center Building,, Detroit Mich.

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Canada

(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for May 1955..... 92,095 tons
Production for May 1954..... 78,141 tons

Dominion production for May 1955 is 107,181 tons, a difference of 15,086 tons from the Quebec figure.

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2000 lbs.

Production for March 1955..... 8,022.75 tons
Valued at £572,341
Production for March 1954..... 6,873.20 tons
Valued at £510,625

Union of South Africa

(Quarterly Information Report—Dept. of Mines)

Tons 2000 lbs.

4th Quarter (Oct., Nov. & Dec. 1954)

	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	11,432	652	£ 10,005	11,431	£ 452,920
Anthophyllite	....	....	....	....	....
Chrysotile	4,550	714	16,767	3,842	289,170
Cape Blue	7,956	214	12,733	8,701	659,445
Transvaal Blue	4,528	220	13,293	4,832	316,859
	28,466	1,800	£ 60,798	28,806	£1,648,394

Year 1954

	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	45,922	5,053	£129,847	41,125	£1,656,370
Anthophyllite	110	....	....	....	....
Chrysotile	19,378	1,582	57,829	15,768	1,093,532
Cape Blue	28,136	1,044	59,190	24,305	1,823,561
Transvaal Blue	15,610	454	26,920	13,124	879,653
	109,221	8,133	£273,786	94,322	£5,453,216

The aesthetic convictions of beauty-conscious Junja Township, (Ugunda, East Africa) Authority were recently relaxed to allow Nile Millers, Ltd., to put a corrugated asbestos roof on their new building — provided it is kept painted either red or green

This relaxation has now been written into the regulations governing Jinja's proposed garden factory area along Queen Elizabeth way.

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CAPE BLUE • TRANSVAAL BLUE • AMOSITE • CHRYSOTILE ETC.

Imports Into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries:

	March 1955 Tons (2240 lbs.)
From Canada	57,292
Union of South Africa	1,729
Rhodesia	445
Australia	286
Other Countries	15
	59,767
Valued at	$5,365,934

By Grades:

Crude, Other, Chrysotile, Canada	138
Crude, Other, Chrysotile, U. of S. Africa	91
Crude, Other, Chrysotile, Rhodesia	418
Crude, Blue, Australia	286
Crude, Blue, U. of S. Africa	1,235
Crude, Amosite, U. of S. Africa	307
Textile Fibres, Chrysotile, Canada	1,323
Textile Fibres, Chrysotile, U. of S. Africa	96
Textile Fibres, Chrysotile, Rhodesia	27
Textile Fibres, Chrysotile, Other Countries	1
Shingle Fibres, Chrysotile, Canada	7,669
Paper Fibres, Chrysotile, Canada	5,341
Other Fibres, Chrysotile, Canada	42,821
Other Fibres, Chrysotile, Other Countries	14
	59,767

Manufactured Asbestos Goods:

	March 1955 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	44,020	$ 39,142
Other Countries	6,057	8,522
Asbestos Packing & Lining, Canada	9,909	15,648
Other Countries	1,257	279
Asbestos Shingles, (Impreg.)	62,867	4,517
Asbestos Shingles, (Not Impreg.), Canada	1,005,213	51,671
Italy	542,956	24,106
	1,672,279	$145,322

Imports into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries:

	Year 1954 Tons (2240 lbs.)
From Canada	571,466
Union of S. Africa	24,173
Australia	1,337
Rhodesia	6,444
Br. E. Africa	195
Bolivia	148
Finland	150
Malta	107
So. B. Africa	996
United Kingdom	133
U.S.S.R.	261
Venezuela	42
Italy	2
	605,460
Valued at	$55,856,606
By Grades:	
Crude No. 1, Chrysotile, Canada	73
Crude No. 1, Chrysotile, W. Germany	4
Crude No. 1, Chrysotile, U. of S. Africa	1
Crude No. 1, Chrysotile, Rhodesia	161
Crude No. 1, Chrysotile, So. B. Africa	3
Crude No. 2, Chrysotile, Canada	162
Crude No. 2, Chrysotile, U. of S. Africa	11
Crude No. 2, Chrysotile, Rhodesia	245
Crude, Other, Chrysotile, Canada	754
Crude, Other, Chrysotile, United Kingdom	25
Crude, Other, Chrysotile, Br. E. Africa	148
Crude, Other, Chrysotile, U. of S. Africa	1,328
Crude, Other, Chrysotile, Rhodesia	5,574
Crude, Other, Chrysotile, So. B. Africa	881
Crude, Blue, Bolivia	148
Crude, Blue, Australia	1,122
Crude, Blue, U. of S. Africa	9,496
Crude, Amosite, U. of S. Africa	13,066
Textile Fibres, Chrysotile, Canada	16,356
Textile Fibres, Chrysotile, Venezuela	42
Textile Fibres, Chrysotile, United Kingdom	106
Textile Fibres, Chrysotile, W. Germany	2
Textile Fibres, Chrysotile, U.S.S.R.	261
Textile Fibres, Chrysotile, Italy	1
Textile Fibres, Chrysotile, U. of S. Africa	173
Textile Fibres, Chrysotile, Rhodesia	139
Textile Fibres, Chrysotile, So. B. Africa	112
Shingle Fibres, Chrysotile, Canada	64,287
Shingle Fibres, Chrysotile, Australia	215

Paper Fibres, Chrysotile, Canada	51,308
Other Fibres, Chrysotile, Canada	438,526
Other Fibres, Chrysotile, United Kingdom	2
Other Fibres, Chrysotile, Finland	150
Other Fibres, Chrysotile, Malta	107
Other Fibres, Chrysotile, Italy	1
Other Fibres, Chrysotile, Br. E. Africa	47
Other Fibres, Chrysotile, U. of S. Africa	98
Other Fibres, Chrysotile, Rhodesia	325
	605,460

Manufactured Asbestos Goods:

	Year 1954 Quantity (lbs.)	Value
Asbestos Yarn, Canada	90,919	$ 108,124
Iceland	2,400	1,475
United Kingdom	535,308	455,657
Belgium	1,865	2,535
Asbestos Packing and Lining, Canada	97,097	93,875
United Kingdom	18,604	12,612
W. Germany	19,900	3,691
Asbestos Shingles, (Impreg.), Canada	205,835	17,198
Asbestos Shingles, (Not Impreg.), Canada	8,102,304	575,376
United Kingdom	23,492	2,370
Japan	5,550	279
Asbestos Manufactures—Others Canada	....	13,913
United Kingdom	....	11,546
Belgium	....	2,628
France	....	703
W. Germany	....	7,854
Spain	....	434
	9,003,274	$1,310,270

FOR SALE

Have minimum of 50,000 lbs. of refiberized asbestos millboard scrap available. Advise best offer. Subject to prior sale. Contact H. North, Austin 7-6180, Chicago, Illinois.

VICTOR MFG. & GASKET CO.

H. G. NORTH

5750 Roosevelt Road, Chicago 50, Illinois

Exports from U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	March 1955 Tons (2240 lbs.)	Value
To Europe	104	$ 8,195
Central America & Mexico	37	8,602
Other Countries	5	1,000
	146	$17,797

Manufactured Asbestos Goods:

	March 1955 Quantity	Value
Asbestos Pipe Covg. & Cement.....Lbs.	371,486	$ 60,289
Asbestos Textiles & Yarn.....Lbs.	149,235	115,321
Asbestos Packing .....Lbs.	125,443	149,786
Asbestos Clutch Facings.....No.	146,572	127,748
Asbestos Bk. Lng. (Mld. & S. Mld.).....Lin. Ft.	240,718	75,275
Asbestos Bk. Lng. Rolls (Woven) .....Lin Ft.	57,561	52,629
Asbestos Bk. Lng.—Other.....Lbs.	413,199	359,484
Asbestos Construction Materials..Lbs.	2,843,445	248,946
Asbestos Manufactures—Others.....	....	48,982
		$1,238,460

CANADIAN SPECIFICATIONS

The list of Canadian Specifications has been amended as of June 30, 1955, and a copy can be obtained from the Canadian Government Specifications Board, National Research Council, Ottawa, Canada, (free).

The following Asbestos material is included in the list:

51-GP-2 Thermal Insulation (Calcium Silicate-Asbestos for Piping, Machinery and Boilers for Marine Use (Amendment No. 1).

CORRECTION: In our July number, page 46, the heading: New Appointment at Sall Mt. should read: New Appointment at U. S. Rubber; and on page 56 the heading: New Appointment at U. S. Rubber, should read: New Appointment at Sall Mt. These two headings were inadvertently transposed.

Exports from Canada

Published by Dominion Bureau of Mines

	May 1955	
Unmanufactured Asbestos	Tons (2000 lbs)	Value
Crude	13	$ 8,892
United States	5	3,206
United Kingdom	....	.....
South America	...	.....
Central America & Mexico	45	34,267
European Countries	3	2,025
Other Countries		
	66	$ 48,390
Milled		
United States	13,799	$2,262,227
United Kingdom	7,529	1,296,465
South America	3,291	581,244
Central America & Mexico	1,420	230,365
European Countries	7,715	1,457,298
Other Countries	7,399	1,144,813
	41.153	$6,972,430
Shorts		
United States	47,985	$2,338,173
United Kingdom	4,580	211,438
South America	1,356	85,043
Central America & Mexico	303	14,167
European Countries	5,596	320,970
Other Countries	1,104	84,071
	60,924	$ 3,053,862
Grand Total — Unmanufactured Asbestos	102,143	$10,074,682

Manufactured Asbestos Goods:

Brake Lining	$ 34,263
Packing	2,418
Other Materials	505,338
	$542,019

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UNITED STATES RUBBER COMPANY
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NEWS OF THE INDUSTRY

HAPPY BIRTHDAYS

Herbert E. Smith, Retired Chairman, U. S. Rubber Co., New York City, August 16.

R. J. Tobin, Chairman, Tilo Roofing Co., Stratford, Conn., August 18.

Carl W. Lemmerman, President, Homestead Corporation, Hartford, Conn., August 19.

Harry Coombs, Works Manager, Beldam Asbestos Co., Ltd., Hounslow, England, August 20.

C. H. Carlough, President, Carolina Asbestos Co., Davidson, N. C., August 20.

P. E| Coombs, Director & General Manager, Uxbridge Flint Brick Co., Uxbridge, Middx, England, August 21.

Melvin A. Jackson, Vice President, Grant Wilson Inc., Chicago, Ill., August 22.

Matthew Balich, President, Matthew Balich Corporation. New York City, August 29.

George Robinson, Secretary, Johnson's Co., Thetford Mines, Canada, August 30.

A. W. Swartz, President, Linear Packing & Rubber Co., Philadelphia, Pa., August 31.

John P. Syme, Vice President, Johns-Manville Corporation, New York City, September 1.

W. D. Pardoe, Vice President, Thermoid Company, Trenton, New Jersey, September 8.

Abbott Coburn, President, Globe Roofing Products., Inc. Whiting, Ind., September 9.

Pierre E. Donellon, Vice President, Charge of Construction, Tilo Roofing Co., September 9.

H. William Bentley, Sales Director, Australian Asbestos (Pty) Ltd., Merrickville, Australia, September 10.

K. R. MacDonald, Director of Purchases, The Ruberoid Co. New York City, September 10.

J. Gilmur Tyson, Jr., President Consolidated Asbestos Corp., Sellersville, Pa., September 14.

R. J. Berry, President, Standard Asbestos ,Mfg. Company Cleveland Ohio, September 15.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

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A. S. T. M. — 58TH ANNUAL MEETING

With a near-record registered attendance of 2537, exceeded only by the 50th Anniversary Meeting in New York with 2602 in attendance in 1952, the American Society for Testing Materials brought to a close its 58th Annual Meeting at Atlantic City, N. J., on July 1. At the week-long meeting with some committees getting together as early as Saturday, June 24, the Society held 32 Technical Sessions and approximately 700 technical committee meetings. Sixty-six of the Society's technical committees presented reports. Sixty-seven new specifications and methods of test were approved as tentative and revisions in 351 existing tentatives and standards were acted upon. A total of 119 specifications and methods of test previously designated as tentatives were approved for reference to Society letter ballot for adoption as standard; 195 standards were reapproved. It was apparent that most committees had worked vigorously for many months to complete the work necessary to get new and revised standards into shape for action at this meeting so as to be included in the triennial ASTM Book of Standards for 1955.

Claire H. Fellows, Director, Engineering Laboratory and Research Dept., Detroit Edison Co., Detroit, was elected President for a one-year term. *Richard T. Kropf*, Vice-President and Director of Research for the Belding Heminway Co., Inc., New York, was elected Vice-President for a two-year term.

Directors of the Society elected for three-year terms were: *R. C. Alden*, Chairman, Research Planning Board, Phillips Petroleum Co., Bartlesville, Oklahoma; *A. A. Bates*, Vice-President, Research and Development, Portland Cement Assn., Chicago; *F. L. LaQue*, Vice-President and Manager, Development and Research Div., The International Nickel Co., Inc., New York; *E. F. Lundeen*, Assistant Superintendent, Quality Control Dept., Inland Steel Co., Chicago; *J. C. Moore*, Director, Technical Section, National Paint, Varnish and Lacquer Assn., Inc., Washington D. C.

R. A. Schatzel, Vice-President and Director of Engineering, Rome Cable Corp., Rome, N .Y., continues in the office of Vice-President to which he was elected last year.

The next national meeting of the Society will be its Committee Week at the Hotel Statler in Buffalo, February 27 to March 2, 1956. The Annual Meeting next year will be held at Atlantic City, N. J., June 17-22, 1956 at which the 12th Exhibit of Testing and Scientific Apparatus and Laboratory Supplies will be held.

TO HEAD BIRD PLANT

William Freegard has been named superintendent of the new Bird & Son, Inc. roofing plant at Charleston, S. C. He joins Bird & Son with long experience in the asphalt roofing industry.

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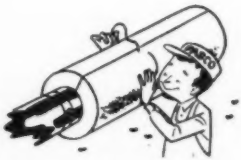

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THERMOID — ATLANTA WAREHOUSE

Thermoid's recently acquired Atlanta warehouse is now in full operation. The new installation at 730 Peachtree Street replaces outgrown facilities located elsewhere in Atlanta. The former location could no longer handle the increased flow of Thermoid automotive products brought on by stepped-up sales by Thermoid dealers throughout the southeastern states.

Under the supervision *Frank H. Schreiber, Jr.*, the new installation will be managed locally by *Clarence Paine*, warehouse manager. Part of the space will be shared by fleet sales personnel and those in Thermoid's industrial division.

The new Atlanta location is part of Thermoid's continual efforts to improve distribution and speed delivery of automotive products. Recently an enlarged warehouse was completed in Trenton adjacent to the main plant.

VAN-PACKER CORPORATION APPOINTS SPECIALIST

The recent appointment of *E. M. Bollaert* as Superintendent of their manufacturing plant at Buda, Illinios, is announced by Van-Packer Corporation, manufacturers of the Van-Packer Packaged Masonry Chimney.

Mr. Bollaert brings to Van-Packer Corporation a back-ground of 26 years experience in the engineering and production of asbestos-cement products. He has operated manufacturing plants for some of the nation's leading producers of asbestos-cement products as well as acting as consultant on engineering problems.

SAFETY AWARD PRESENTED TO LOCKLAND LOCAL NO. 321

C. A. Tegtmeier, president of Lockland Local No. 321, International Brotherhood of Paper Makers, AFL, recently accepted congratulations from *J. W. Humphrey*, president, The Philip Carey Mfg. Company, on the occasion when 1,000,000 man hours of safety were reached at the Lockland plant site near Cincinnati.

Coupled with this record was the award received from the Asphalt Roofing Industry Bureau for reduction of accident frequency over the previous year. It was noted that this is a better average than compiled by other member companies. Mr. Humphrey reminded guests at a special luncheon, of the remark often made by the late C. B. Pooler, Carey vice president, that a good place is a safe place to work.

MINE SAFETY APPLIANCES CO.

John B. Davies, Manager of industrial sales, Mine Safety Appliances Company, Pittsburgh, Pa., was elected President of the Industrial Safety Equipment Association at the group's recent annual meeting.

Mr. Davies joined Mine Safety as a chemist in 1919, five years after the company was founded. Before assuming his present position, Mr. Davies was assistant sales manager.

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Baboon Asbestos Co.

Springbok Asbestos Co.

Grades: TD1, TD2, TD3, TD4

A. S. T. M. — SYMPOSIUM ON METHODS OF TESTING BUILDING CONSTRUCTIONS, STP NO. 166

Seven excellent papers on testing, evaluation, and performance of building construction are presented in this Symposium. Some of the conclusions are based on research results or factual evidence, whereas others are expressions of the author's opinon. In all instances, however, they indicate how building construction may be improved and the need for further research.

This Symposium was sponsored by ASTM Committee E-6 on Methods of Testing Building Constructions and was presented at the 57th Annual Meeting of the American Society for Testing Materials at Chicago, June 1954. Committee E-6 was organized to formulate methods of test for building constructions, including elements, connections and assemblies, under actual or simulated service conditions, applicable to the evaluation of such factors as materials, design, construction, and fabrication.

Copies of the Symposium may be obtained from the American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa., at $2.75 per copy.

J-M TO BUILD NEAR SAVANNAH

Johns-Manville will build an asphalt roofing plant and warehouse near Savannah, Georgia, with production expected by early Fall, 1956, it was recently announced by A. R. Fisher, President.

The Savannah plant is the second major expansion announced by J-M this month. Earlier the company disclosed plans for construction of a large insulation board plant in Canada at North Bay, Ontario.

Located on a 58-acre tract one mile north of the City of Savanhah, plant buildings will cover more than 100,000 square feet of floor space. Johns-Manville will produce there its nationally-known line of asphalt roofing products and will warehouse a number of asbestos-cement building products for distribution in the Southeast.

R-M—ASBESTOS TEXTILE UNIT CHANGE IN PERSONNEL

J. A. Bettes, Jr., sales manager since 1939 of the Asbestos Textile Division of Raybestos-Manhattan, Inc., has been made manager of the division.

Succeeding him as sales manager is *J. A. Brown, Jr.*, who has been assistant sales manager since 1952.

Mr. Bettes, will also retain his post as manager of the Revolite Divisoin to which he was named in May when Raybestos bought the Revolite organization from the Atlas Powder Company. He has been in the asbestos textile industry for 26 years and is a graduate of the Philadelphia Textile Institute.

Mr. Brown has been in the industry since 1937. He joined the Asbestos Textile Division as Philadelphia district manager in 1947, became assistant sales manager five years later.

W. N. REAKES RECEIVES SCOUT AWARD

"In Dominion Day Honours List," *W. N. Reakes* has been advised that His Excellency, the Right Honourable Vincent Massey, C. H., Chief Scout for Canada awarded him The Medal of Merit for outstanding services to Scouting.

Mr. Reakes is District Engineer, Asbestos Fibre Division, Canadian Johns-Manville Co., Ltd., Asbestos Que., is Asst. Prov. Commissioner for Lone Scouting, member of the Canadian General Council, Que. Prov. Council executive, and the Asbestos Group Committee, and a member of the Association for the past 36 years.

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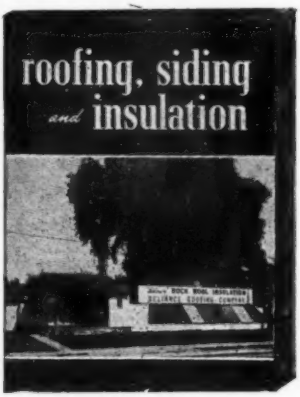

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PROMOTION AT J-M CELITE DIVISION

The appointment of *Clinton B. Burnett* as General Manager of the Johns-Manville Celite Division has just been announced.

Mr. Burnett succeeds *Arthur S. Elsenbast*, a pioneer in the development of manufacturing methods and uses of diatomite products who retired on July 31.

Mr. Burnett, who continues as Vice President of Johns-Manville Products Corporation, was Director of Engineering before his appointment as Assistant General Manager of the Johns-Manville Celite Division in July of 1954.

He has also been Production Manager of the Building Products Division and Operating Manager of the Kansas Ordnance Plant which Johns-Manville operated for the U. S. Government during World War II.

FLINTKOTE CO.

Flintkote Mines Limited, wholly-owned subsidiary of Flintkote Co., manufacturer of building materials with headquarters in New York City, will spend in excess of $3 million to expand the capacity of the firm's asbestos mill at Thetford Mines, Que., by approximately one half, and to mine additional asbestos ore reserves recently proved to be available through deep pit operations. The company currently operates in an open pit mine.

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"CAPOSITE" TECHNICAL DATA SHEETS

The Cape Asbestos Company, Limited, London, England, recently issued the first of a series of their "Caposite" Amosite asbestos thermal insulation materials—reference HI. 1, A and B, "Internal and External Piping."

Illustrations are given of a preformed specification for internal and external piping, and details are given of thermal conductivity, the size and maximum diameters per thickness.

The remaining sheets in the series will come out periodically over a long time.

"ASBESTOS" has a few copies for distribution to interested readers.

NEW ORGANIZATION FORMED AT J-M

Johns-Manville recently announced the formation of a new organization to increase its specialized service to the expanding automotive industry.

Headquarters for the new service group, composed of a corps of engineers and sales specialists, will be established in the Fisher Building, Detroit, Michigan, according to J. A. O'-Brien, Vice President of J-M and General Manager of its Industrial Products Division.

A. B. Curtis has been appointed Manager of the new operation which has been designated as the Johns-Manville Automotive Equipment Sales Department.

ARIZONA ASBESTOS

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MINES AND MILL IN GILA COUNTY

NATIONAL GYPSUM PERFECTS NEW SHINGLE COATING

A new plastic coating for asbestos-cement shingles has improved the appearance and quality of the National Gypsum Co.'s products, it was disclosed by Melvin H. Baker, board chairman, at the firm's recent annual meeting held at the main office, Buffalo, N. Y.

National Gypsums research center has also developed a process for the making of a stronger, weather-proofed fibre board for sheathing and roof decks. The new products will be manufactured in the plant which the company is now building in Mobile, Ala.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		July 1955		
	Par	Low	High	Last
Amer. Br. Shoe (Com.)	np	37½	41⅞	41
Amer. Br. Shoe (Pfd.)	100	104	106¾	105⅛
Armst. Ck. (Com.)	1	29	31¾	29¾
Armst. Ck. (Pfd.)	np	97½	100	98½
Asbestos Corp. (Com.)	np	43	46½	44½
Carey (Com.)	10	26	30½	30½
Cassiar Asb. Corp.	np	$9.15	$12.25	$10.75
Celotex (Com.)	np	31	33¾	32
Celotex (Pfd.)	20	19⅜	19⅝	19⅞
Certainteed (Com.)	1	27¼	29¼	28
Dominion Asb. Mines	1	18c	25c	19½c
Flintkote (Com.)	np	40⅝	43	41⅛
Flintkote (Pfd.)	np	102½	104	104
Johns-Manville (Com.)	np	81½	87⅞	83⅝
Natl. Gypsum (Com.)	1	51¾	54⅜	53⅜
Natl. Gypsum (Pfd.)	np	102½	105	104⅝
Pabco Products (Com.)	np	29⅛	30⅞	29¼
Pabco Products (Pfd.)	100	100	102	102
Ray-Man (Com.)	np	50¾	52	52
Ruberoid (Com.)	1	37⅛	38⅞	39⅞
Thermoid (Com.)	1	10⅞	13⅛	12⅛
Thermoid (Pfd.)	50	44⅞	47¾	46¾
Union Asb. & Rub. (Com.)	5	8½	8⅞	8¾
United Asb. (Com.)	1	$7.35	$9.55	$9.10
U. S. Gypsum (Com.)	20	268	281	271
U. S. Gypsum (Pfd.)	100	181	184	181
U. S. Rubber (Com.)	5	45⅝	49⅜	47¼
U. S. Rubber (Pfd.)	100	169½	172¼	170¾

AMERICAN BRAKE SHOE CO.
Semi-Annual Report

Second quarter earnings of American Brake Shoe Company were 127 per cent ahead of second quarter earnings last year, according to a report just released.

Earnings after taxes amounted to $1,752,941, equal to $1.40 per common share after preferred dividends, compared to $773,400, or 52 cents per common share, in the second quarter last year.

In the first six months of 1955, sales totalled $66,778,866, up 13 percent over $58,972,851 in the first half of 1954; net earnings were $3,029,507, up 20 per cent over $2,523,850 a year ago; and earnings per common share amounted to $2.38, compared to $1.94.

The earnings increase reflects higher sales, which totalled $36,201,287 for three months ending June 30. This compared to sales of $30,577,579 in the first quarter of 1955 and was a gain of 41 per cent over $25,662,529 in sales in the second quarter last year.

CURRENT RANGE OF PRICE

As of August 10, 1955

Arizona—	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona		
No. 1 Crude (soft)	$1,600.00	to	$1,700.00
No. 2 Crude (soft)	1,000.00	to	1,050.00
No. 3 Crude (soft)	450.00	to	500.00
Filter Fibre (soft)	250.00	to	450.00
No. 1 Crude (semi-soft)	1,200	to	1,500.00
No. 2 Crude (semi-soft)	900.00		
No. 3 Crude (semi-soft)	400.00		

Canada—	Per Ton 2000 lbs. f.o.b. Mine		
Group No. 1 (Crude No. 1)	$1,100.00	to	$1,500.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	500.00	to	1,000.00
Group No. 3 (Spinning Fibre)	300.00	to	525.00
Group No. 4 (Shingle Fibre)	150.00	to	200.00
Group No. 5 (Paper Fibre)	100.00	to	140.00
Group No. 6 (Waste, Stucco or Plaster)			77.00
Group No. 7 (Refuse or Shorts)	35.00	to	70.00

Vermont— Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.			
Group No. 3 (Spinning & Filtering)	$ 321.00	to	$ 348.00
Group No. 4 (Shingle Fibre)	156.00	to	173.00
Group No. 5 (Paper Fibre)	109.00	to	132.00
Group No. 6 (Waste, Stucco or Plaster)			77.00
Group No. 7 (Refuse or Shorts)	37.00	to	68.50

CYPRUS ASBESTOS MINES, LTD.
ANNUAL REPORT

The 1954 report from the Inspector of Cyprus Mines has been received and we quote that part concerning the asbestos mines.

The Amiandos asbestos mine, situated at an elevation of 4,500 feet on the Troodos mountains, operated throughout the dry season. Due to increased mechanization in the quarries there was a considerable drop in the number of laborers engaged, the maximum number employed at the peak of the operating season being 2,295 compared with 2,905 in 1953.

1,473,874 tons of rock were quarried of which 392,525 tons were treated for a production of 9,200 tons of long grade and 6,109 tons of short grade fibres compared wth 440,750 tons producing 6,694 tons of long and 7,561 tons of short grades in 1953. The increase in the proportion of long grades is due to modifications made at the treatment plants and not to the type of material quarried.

Exports of fibre amounted to 18,163 tons valued at £868,668 and includes approximately 5,000 tons of short grades which were held in stock at the commencement of the year and for which at that time demand was poor.

Expenditure on construction work amounted to £69,149, of which £56,247 was spent on machinery, plant and equipment.

The asbestos-cement factory utilized 176 tons of asbestos in the production of asbestos-cement goods, the main items being 64,278 sheets and 23,392 pieces of roof ridges. Local sales of asbestos-cement goods realized £52,139.

CHANGES IN PERSONNEL AT U. S. RUBBER

Effective immediately, *H. Gordon Smith*, executive vice president of the United States Rubber Co., has also been elected vice chairman of the board and chairman of the executive committee.

Chester J. Noonan, vice president, has been elected a member of the executive committee.

Mr. Smith has been with U. S. Rubber since 1917 when he joined the planning department of the company's Detroit plant. He was elected a vice president in 1945 and in 1951 he became a director, vice chairman of the executive committee and executive vice president.

Mr. Noonan joined the company in 1919 as a clerk in the footwear and clothing department at Great Falls, Mont. He was made manager of clothing and coated fabrics sales in 1938 and general sales manager of the footwear division in 1943.

He became assistant general manager of the division in 1950 and vice president and general manager in 1953, and was elected a director in April of this year.

HOMAS-KOEHLER INC.

Homans-Koehler Inc. announces the consolidation of their office and warehouse at a new location, effective May 16, 1955: 40 Walter Avenue, Brookline 46, Massachusetts.

These greatly improved and expanded facilities in Brookline Village will render a convenient "one-stop" service in all their excellent up-to-date line of specialties to meet the Acoustical, Heating, Insulating and Ventilating requirements.

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INSULATION DISTRIBUTOR-CONTRACTORS NATIONAL ASSOCIATION, INC.

The third general meeting of the INSULATION DISTRIBUTOR-CONTRACTORS NATIONAL ASSOCIATION will be held in Pittsburgh, Pennsylvania, at the Hotel William Penn on September 15 and 16, 1955. The dates of the meeting had been announced previously as September 22 and 23 so please note the change.

The Board of Directors will convene on September 14, the day preceding the regular meeting.

It is a great pleasure to announce that their membership has almost tripled since the meeting held last February in Chicago. The interest, encouragement and cooperation of the Association's many friends throughout the industry are most gratifying and sincerely appreciated.

An open invitation is extended to everyone interested to come to the meeting at Pittsburgh, September 15 and 16, 1955.

Inquiries should be addressed to the Association at 3420 Dent Place, N. W., Washington, D. C.

JOHNS-MANVILLE REPORT FOR SECOND QUARTER

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the second quarter of 1955 were $6,531,742, compared with $5,435,663 for the corresponding period last year.

Sales for the second quarter of 1955 were $75,450,847, compared with $64,815,708 for the second quarter of 1954, and were the highest for any quarter in the company's history.

Earnings were the highest for any second quarter and amounted to $2.05 per share of common stock compared with $1.71 for the same period last year.

For the year to date, sales were $131,720,469 and earnings were $9,262,441 or $2.91 per share, compared with sales of $116,728,773 and earnings of $8,028,069 or $2.53 per share for the first six months last year.

AMERICAN BRAKE SHOE CO. NEW APPOINTMENT

Alan D. Kattelle has been appointed assistant general purchasing agent of the American Brake Shoe Company. Formerly purchasing agent for equipment and construction, he joined the company in 1948 as a special apprentice. He worked in several Brake Shoe plants as foreman before being assigned to purchasing in 1952 at New York headquarters.

IMPEX

Handelsgesellschaft — Special Importers of Raw Asbestos — Denselmann & Michaelsen

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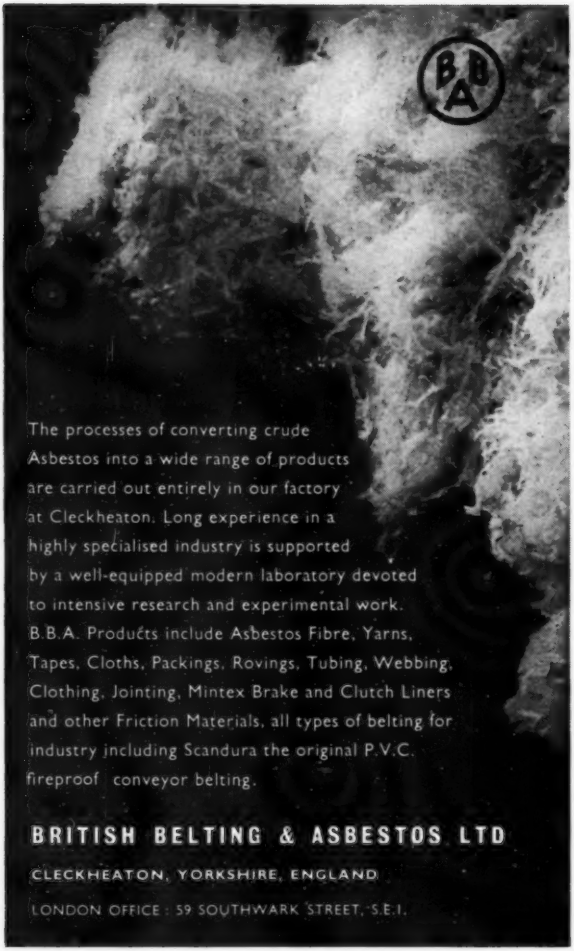
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FLINTKOTE ANNOUNCES NEW IMPROVED COATING

The Flintkote Company of New York City, recently announced a new all-surface protective coating for its asbestos-cement siding products. This coating, called "Wrap-Around" Silicone Dura-Shield, is an improved version of Flintkote's previous coating.

As the name implies, Dura-Shield is applied to the front, back and edges of the siding—a treatment new in the industry. Heretofore, only the face surface of asbestos-cement sidings have been coated. This additional coating gives the siding more than double the protection it formerly received against the staining action of the weather, smoke, etc.

A new industrial exposition, the Production Engineering Show, will be launched in Chicago in September to coincide with the holding of the Machine Tool Show, it was recently announced by Clapp & Poliak, Inc., 34 Madison Avenue, New York 17, New York exposition management firm.

Both shows will take place from September 6 to 17, inclusive. The Production Engineering Show (new exposition covering field of automation) will be held at Navy Pier and the Machine Tool Show at the International Ampitheatre.

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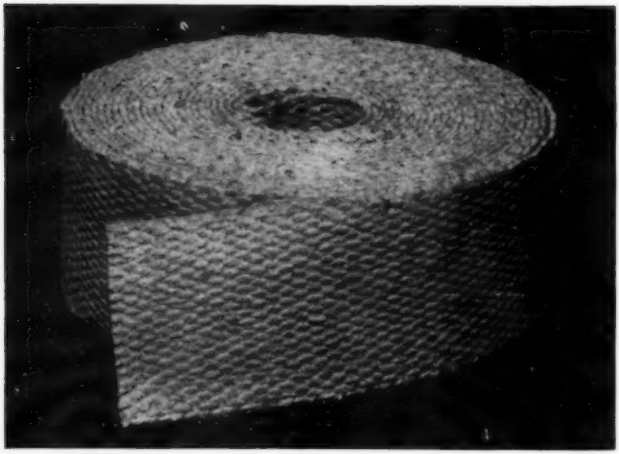

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R/M No. 907F Asbestos Tape is an example of R/M's ability to develop an engineered product for a specific application. It is impregnated with a flexible compound that is resistant to oil, water and flame. This tape is designed primarily for the flash protection of lead sheathed cables in manholes under city streets.

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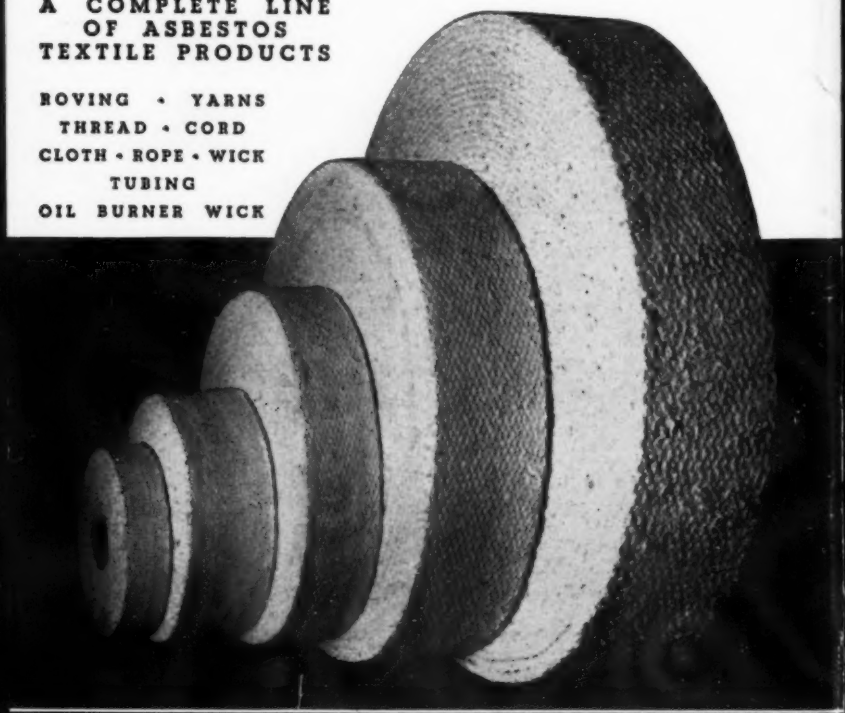

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